AMENDMENTS TO THE SPECIFICATION

Please add the following statements to the Specification at the end of the first paragraph under the heading DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT: "In one embodiment of the invention, the electronic control unit 140 interfaces with the fluid pressure control element 110 to maintain simulated diastolic and systolic blood pressure levels within the pressure vessel 120. In one embodiment of the invention, the fluid pressure control element 110 is an electromechanically actuated pressure regulator. In another embodiment of the invention, the fluid pressure control element 110 is an electric solenoid controlled valve system."

Since the above matter was included in original Claims 1, 7 and 8, no new matter is being added by modification of the Specification.

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